Attorney's Docket No.: 14414-011001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Louis J. Bintz et al. Art Unit : 1732
Serial No. : 10/633,955 Examiner : Mathieu Vargot
Filed : August 4, 2003
Title : METHOD OF FABRICATING ELECTRO-OPTIC POLYMER WAVEGUIDE DEVICES INCORPORATING ELECTRO-OPTICALLY ACTIVE POLYMER CLADS

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY TO ACTION OF JUNE 30, 2005

In reply to the Office Action of June 30, 2005, Applicants submit the following remarks.

Claims 1-27 are pending. Claims 1, 2, and 16 stand rejected under 35 U.S.C. §102(b) over Dorn et al., U.S. 5,319,492 ("Dorn"). Claims 3-15 and 17-27 stand rejected under 35 U.S.C. §103 over Dorn, alone or in combination with Oh et al., Appl. Phys. Lett. 2000, 76(24:3525-3527 ("Oh"). Applicants request the Examiner to reconsider and withdraw the rejections for the following reasons.

Each of the claims is directed towards a method of manufacturing a waveguide. Waveguides require a specific type of structure and are designed to perform specific functions. Dorn, the primary reference, does not describe a waveguide. Rather, the device shown in Fig. 3 of Dorn, to which the Examiner refers, is a type of Bragg mirror. In this device, light comes in at an angle to the device and is reflected depending on the refractive index of the layers. This is why one of the electrodes (13) or (14) in Dorn's device must be transparent (see col. 3, lines 12-13), and why the light wave is oblique to the switch and traverses the layers (see col. 3, lines 66-

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October 17, 2005
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